

Response
Serial No. 09/822,231
Attorney Docket No. 010272

AMENDMENTS TO THE CLAIMS:

This Listing of Claims replaces all prior versions and listings of claims in the application.

Listing of Claims

Claim 1 (Currently Amended): A printer apparatus, which is specified by the host to print in logical-page units, and comprises:

a mechanical controller for receiving a printing command, controlling a printing engine that prints on a printing medium, and detecting when there is no said printing medium in said printing engine; and

a printer controller for receiving a printing instruction from said host to print in logical-page units and creating printing data;

wherein said printer controller calculates the total physical length of said logical-pages after creating said printing data, according to the calculated physical length of said logical-pages and physical length of one page of said printing medium, ~~then references a physical length of one page of said printing medium, and depending on the results,~~ sends said printing command and said printing data to said mechanical controller, ~~and also according to said reference results,~~ and controls the detection operation of said mechanical controller for detecting when there is no said printing medium.

Claim 2 (Original): The printer apparatus of claim 1, wherein

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said printer controller creates bitmap data for each logical page as said printing data according to the printing instruction from said host for printing in logical-page units until the total physical length of plurality of said logical pages reaches said physical length, and then sends said print command and said bitmap data in logical-page units to said mechanical controller in said logical-page units.

Claim 3 (Original): The printer apparatus of claim 1, wherein
said printer controller receives the logical-page lengths from said host, and calculates the total physical length of said logical-pages.

Claim 4 (Original): The printer apparatus of claim 1, wherein
said printer controller calculates the physical length of said total logical pages, according to the logical-page lengths and number of logical pages received from said host.

Claim 5 (Original): The printer apparatus of claim 1, wherein
said printer engine comprises an engine for printing on a continuous printing medium, having a set fold length, as said printing medium.

Claim 6 (Original): The printer apparatus of claim 1, wherein
said printer controller checks said physical length in said logical-page units.

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Claim 7 (Currently Amended): A printer control method for printing in logical-page units according to a command of a host, ~~and comprises the steps of~~ the method comprising:

receiving a printing instruction from said host to print in logical-page units;
creating printing data to be printed on a print medium by a print engine according to said printing instruction;
calculating the total physical length of said logical-pages;
referencing a physical length of one page of said print medium;
sending a printing command and said printing data to a mechanical controller for controlling said print engine ~~according to said reference results~~ and controlling the detection operation of said mechanical controller for detecting when there is no said printing medium[.]
according to the calculated physical length of said logical-pages and physical length of one page of said printing medium.

Claim 8 (Original): The printer control method of claim 7, wherein
said creating step comprises a step of creating bitmap data for each logical page as said printing data according to the printing instruction from said host for printing in logical-page units until the total physical length of plurality of said logical pages reaches said physical length,
and said sending step comprises a step of sending said print command and said bitmap data in logical-page units to said mechanical controller in said logical-page units.

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Claim 9 (Original): The printer control method of claim 7, wherein
said calculating step comprises a step of calculating the total physical length of said
logical-pages according to logical-page lengths received from said host.

Claim 10 (Original): The printer control method of claim 7, wherein
said calculating step comprises a step of calculating the physical length of said total
logical pages, according to the logical-page lengths and number of logical pages received from
said host.

Claim 11 (Original): The printer control method of claim 7, wherein
said printing engine comprises an engine for printing on a continuous printing medium,
having a set fold length, as said printing medium.

Claim 12 (Original): The printer control method of claim 7, wherein
said referencing step comprises a step of checking said physical length in said logical-
page units.